

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number  
**WO 2005/084608 A1**

(51) International Patent Classification<sup>7</sup>: **A61J 3/07**

(21) International Application Number:  
PCT/IB2005/000479

(22) International Filing Date: 23 February 2005 (23.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
BO2004A000117 27 February 2004 (27.02.2004) IT

(71) Applicant (for all designated States except US): I.M.A.  
INDUSTRIA MACCHINE AUTOMATICHE S.P.A.  
[IT/IT]; Via Emilia Levante, 428-442, I-40064 Ozzano  
Emilia (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TREBBI, Roberto

[IT/IT]; Via Forno Rosso, 2/3, I-40055 Castenaso (IT).  
FUNARO, Caterina [IT/IT]; Via Ravenna, 8, I-40139  
Bologna (IT).

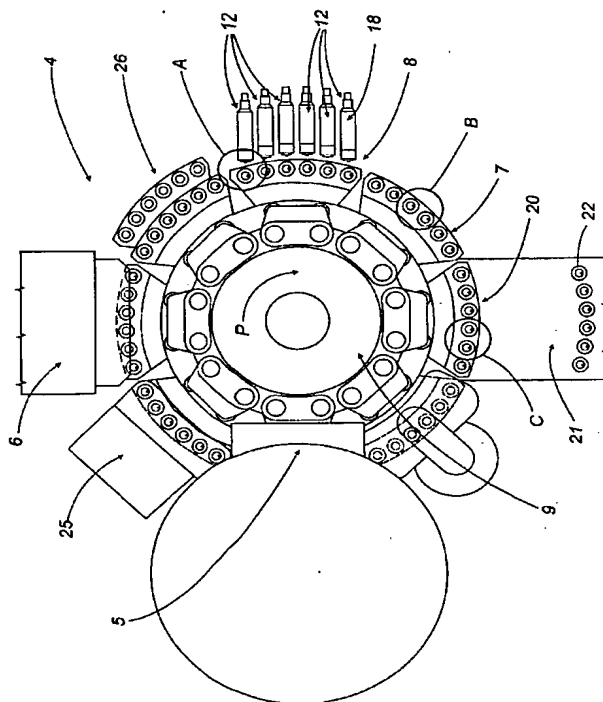
(74) Agent: LANZONI, Luciano; Bugnion S.p.A., Via Goito,  
18, I-40126 Bologna (IT).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: A CAPSULE FILLING MACHINE AND METHOD FOR PRODUCING SEALED CAPSULES



(57) Abstract: A capsule filling machine (4) for the production of hard gelatin capsules (C) of the type with lid (2) and body (1) containing pharmaceutical material, the machine (4) being of the type comprising a station (5) for feeding the capsule bodies (1) and lids (2); a dosing station (6) for filling a dose of the material into each capsule body (1); and a station (7) for closing the capsules (C) by placing each lid (2) over the respective body (1) so that their respective annular ends (2a, 1a) overlap. Between the dosing station (6) and the closing station (7) there is at least one intermediate operating station (8) for applying a sealing substance to the capsule lid and bodies in the vicinity of their ends (1a, 2a).

WO 2005/084608 A1



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*